

1. The context of Fair Division

2. The definition of a **fair share**:

3. Divider-Chooser in a Nutshell

Example**What is being divided:** 6 muffins

2 apple-walnut (A)

2 blueberry (B)

2 cheese & jalapeno (C)

Cost: the package of 6 cost \$12**Parties (who is involved):** Yuri (Y), and Zariah (Z)**Preferences:** Y likes all the flavors equally.

Z likes A twice as much as B or C

(a) **Ignoring all preferences**, what is the value of a muffin? _____(b) **In a dollar amount**, what would be **the value of** a fair share in this case? _____(c) Fill out the table below indicating for each party (X,Y, or Z), the dollar amount **they** would assign to each muffin. The total value should always sum to \$12. (!!)

party	A	A	B	B	C	C	total value
Y							
Z							

(d) Complete Divider-Chooser with Yuri as the divider and Zariah as the chooser.

(e) Complete Divider-Chooser with Zariah as the divider and Yuri as the chooser.